

=> d his

(FILE 'HOME' ENTERED AT 21:16:46 ON 10 MAR 2009)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 21:17:27 ON 10 MAR 2009

L1 417 S (OSTEOBLAST? OR OSTEOGEN? OR STEM(W)CELL) (7A)DEDIFFERENTIAT?
L2 286805 S ALKALINE(W)PHOSPHATASE OR COLLAGEN(W)TYPE(3A)I OR OSTEOCALCIN
L3 2958 S (SUBSTITUT? OR DISUBSTITUT?) (4A)PURINE
L4 24 S L1(P)L2
L5 0 S L3 AND L4
L6 0 S L1 AND L2 AND L3
L7 1 S L1 AND L3
L8 10 DUP REM L4 (14 DUPLICATES REMOVED)
L9 523 S (ADIPOCYTE OR ADIPOGEN? OR STEM(W)CELL) (7A)DEDIFFERENTIAT?
L10 79926 S OB OR UCP OR PPARGAMMA OR C/EBP
L11 98923 S OB OR UCP OR PPARGAMMA OR C(W)EBP
L12 33 S L9(P)L11
L13 10 DUP REM L12 (23 DUPLICATES REMOVED)
L14 0 S L3 AND L12

=> d bib ab 17

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:996204 CAPLUS
DN 140:160988
TI Dedifferentiation of Lineage-Committed Cells by a Small Molecule
AU Chen, Shuibing; Zhang, Qisheng; Wu, Xu; Schultz, Peter G.; Ding, Sheng
CS Department of Chemistry and the Skaggs Institute for Chemical Biology, The
Scripps Research Institute, La Jolla, CA, 92037, USA
SO Journal of the American Chemical Society (2004), 126(2), 410-411
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
AB Combinatorial libraries were screened for mols. that induce mouse myogenic
lineage committed cells to dedifferentiate in vitro. A 2,6-
disubstituted purine, reversine, was discovered that
induces lineage reversal of C2C12 cells to become multipotent progenitor
cells which can redifferentiate into osteoblasts and adipocytes. This and
other such mols. are likely to provide new insights into the mol.
mechanisms that control cellular dedifferentiation and may ultimately be
useful to in vivo stem cell biol. and therapy.
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d au ti so pi 1-10 18

L8 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
AU Kudo, Naoko; Ogose, Akira; Hotta, Tetsuo; Kawashima, Hiroyuki; Gu,
Wenguang; Umezu, Hajime; Toyama, Tsuyoshi; Endo, Naoto
TI Establishment of novel human dedifferentiated chondrosarcoma cell line
with osteoblastic differentiation
SO Virchows Archiv (2007), 451(3), 691-699
CODEN: VARCEM; ISSN: 0945-6317

L8 ANSWER 2 OF 10 LIFESCI COPYRIGHT 2009 CSA on STN
AU Steck, Eric; Bertram, Helge; Abel, Rainer; Chen, Bohua; Winter, Anja;
Ritcher, Wiltrud
TI Induction of Intervertebral Disc-Like Cells From Adult Mesenchymal Stem

Cells

- SO Stem Cells, (20050300) vol. 23, no. 3, pp. 403-411.
ISSN: 1066-5099.
- L8 ANSWER 3 OF 10 MEDLINE on STN DUPLICATE 1
AU Byers Benjamin A; Garcia Andres J
TI Exogenous Runx2 expression enhances in vitro osteoblastic differentiation and mineralization in primary bone marrow stromal cells.
SO Tissue engineering, (2004 Nov-Dec) Vol. 10, No. 11-12, pp. 1623-32.
Journal code: 9505538. ISSN: 1076-3279.
- L8 ANSWER 4 OF 10 MEDLINE on STN DUPLICATE 2
AU Chen Neal X; Moe Sharon M
TI Vascular calcification in chronic kidney disease.
SO Seminars in nephrology, (2004 Jan) Vol. 24, No. 1, pp. 61-8. Ref: 74
Journal code: 8110298. ISSN: 0270-9295.
- L8 ANSWER 5 OF 10 MEDLINE on STN DUPLICATE 3
AU Robinson D; Ash H; Yayon A; Nevo Z; Aviezer D
TI Characteristics of cartilage biopsies used for autologous chondrocytes transplantation.
SO Cell transplantation, (2001 Mar-Apr) Vol. 10, No. 2, pp. 203-8.
Journal code: 9208854. ISSN: 0963-6897.
- L8 ANSWER 6 OF 10 MEDLINE on STN DUPLICATE 4
AU Chien H H; Lin W L; Cho M I
TI Down-regulation of osteoblastic cell differentiation by epidermal growth factor receptor.
SO Calcified tissue international, (2000 Aug) Vol. 67, No. 2, pp. 141-50.
Journal code: 7905481. ISSN: 0171-967X.
- L8 ANSWER 7 OF 10 MEDLINE on STN DUPLICATE 5
AU Alliot-Licht B; De Lange G L; Gregoire M
TI Effects of hydroxyapatite particles on periodontal ligament fibroblast-like cell behavior.
SO Journal of periodontology, (1997 Feb) Vol. 68, No. 2, pp. 158-65.
Journal code: 8000345. ISSN: 0022-3492.
- L8 ANSWER 8 OF 10 MEDLINE on STN DUPLICATE 6
AU Spiess Y H; Price P A; Deftos J L; Manolagas S C
TI Phenotype-associated changes in the effects of 1,25-dihydroxyvitamin D3 on alkaline phosphatase and bone GLA-protein of rat osteoblastic cells.
SO Endocrinology, (1986 Apr) Vol. 118, No. 4, pp. 1340-6.
Journal code: 0375040. ISSN: 0013-7227.
- L8 ANSWER 9 OF 10 SCISEARCH COPYRIGHT (c) 2009 The Thomson Corporation on STN
AU SPIESS Y (Reprint); BURTON D; PRICE P; PROVVEDINI D; CATHERWOOD B; DEFTOS L J; MANOLAGAS S C
TI FAILURE OF 1,25(OH)2D3 TO STIMULATE ALKALINE-PHOSPHATASE ACTIVITY IN CULTURED OSTEOLASTIC CELLS IS ASSOCIATED WITH DEDIFFERENTIATION TOWARD A LESS OSTEOLASTIC PHENOTYPE
SO CALCIFIED TISSUE INTERNATIONAL, (1983) Vol. 35, No. 4-5, pp. 651-651.
ISSN: 0171-967X.
- L8 ANSWER 10 OF 10 LIFESCI COPYRIGHT 2009 CSA on STN
AU Spiess, Y.; Burton, D.; Price, P.; Provvedini, D.; Catherwood, B.D.; Deftos, L.J.; Manolagas, S.C.
TI Failure of 1,25(OH) sub(2)D sub(3) to stimulate alkaline phosphatase activity in cultured osteoblastic cells is associated with dedifferentiation toward a less

osteoblastic phenotype.

FIFTH ANNUAL SCIENTIFIC MEETING OF THE AMERICAN SOCIETY FOR BONE AND MINERAL RESEARCH. ABSTRACTS.

SO CALCIF. TISSUE INT., (1983) p. 651.

Meeting Info.: 5. Annual Scientific Meeting of the American Society for Bone and Mineral Research. San Antonio, TX (USA). 5-7 Jun 1983.

=> d au ti so pi 1-10 113

L13 ANSWER 1 OF 10 MEDLINE on STN

AU Matsumoto Taro; Kano Koichiro; Kondo Daisuke; Fukuda Noboru; Iribe Yuji; Tanaka Nobuaki; Matsubara Yoshiyuki; Sakuma Takahiro; Satomi Aya; Otaki Munenori; Ryu Jyunnosuke; Mugishima Hideo

TI Mature adipocyte-derived dedifferentiated fat cells exhibit multilineage potential.

SO Journal of cellular physiology, (2008 Apr) Vol. 215, No. 1, pp. 210-22.
Journal code: 0050222. E-ISSN: 1097-4652.

L13 ANSWER 2 OF 10 MEDLINE on STN

DUPLICATE 1

AU Liang Xiubin; Kanjanabuch Talerngsak; Mao Su-Li; Hao Chuan-Ming; Tang Yi-Wei; Declerck Paul J; Hasty Alyssa H; Wasserman David H; Fogo Agnes B; Ma Li-Jun

TI Plasminogen activator inhibitor-1 modulates adipocyte differentiation.

SO American journal of physiology. Endocrinology and metabolism, (2006 Jan) Vol. 290, No. 1, pp. E103-E113. Electronic Publication: 2005-09-06.
Journal code: 100901226. ISSN: 0193-1849.

L13 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

AU Tsukamoto, Hidekazu; She, Hongyun; Hazra, Saswati; Cheng, Jason; Miyahara, Takeo

TI Anti-adipogenic regulation underlies hepatic stellate cell transdifferentiation

SO Journal of Gastroenterology and Hepatology (2006), 21(Suppl. 3), S102-S105
CODEN: JGHEEO; ISSN: 0815-9319

L13 ANSWER 4 OF 10 MEDLINE on STN

DUPLICATE 2

AU Sartipy Peter; Loskutoff David J

TI Monocyte chemoattractant protein 1 in obesity and insulin resistance.

SO Proceedings of the National Academy of Sciences of the United States of America, (2003 Jun 10) Vol. 100, No. 12, pp. 7265-70. Electronic Publication: 2003-05-19.
Journal code: 7505876. ISSN: 0027-8424.
Report No.: NLM-PMC165864.

L13 ANSWER 5 OF 10 MEDLINE on STN

DUPLICATE 3

AU Cabrero A; Alegret M; Sanchez R M; Adzet T; Laguna J C; Vazquez M

TI Bezafibrate reduces mRNA levels of adipocyte markers and increases fatty acid oxidation in primary culture of adipocytes.

SO Diabetes, (2001 Aug) Vol. 50, No. 8, pp. 1883-90.
Journal code: 0372763. ISSN: 0012-1797.

L13 ANSWER 6 OF 10 MEDLINE on STN

DUPLICATE 4

AU Higa M; Kakuma T; Pan W; Wang Z W; Babcock E; McCorkle K; Lee Y; Unger R

TI Slow recovery of body fat lost during adenovirus-induced hyperleptinemia.

SO Biochemical and biophysical research communications, (2000 Dec 29) Vol. 279, No. 3, pp. 786-91.
Journal code: 0372516. ISSN: 0006-291X.

L13 ANSWER 7 OF 10 MEDLINE on STN

DUPLICATE 5

AU Uchida Y; Ohba K; Ogawa A; Wada K; Yoshioka T; Muraki T

TI Protein kinase C mediates tumor necrosis factor-alpha-induced inhibition of obese gene expression and leptin secretion in brown adipocytes.
 SO Naunyn-Schmiedeberg's archives of pharmacology, (1999 Dec) Vol. 360, No. 6, pp. 691-8.
 Journal code: 0326264. ISSN: 0028-1298.

L13 ANSWER 8 OF 10 MEDLINE on STN
 AU Xing H; Northrop J P; Grove J R; Kilpatrick K E; Su J L; Ringold G M
 TI TNF alpha-mediated inhibition and reversal of adipocyte differentiation is accompanied by suppressed expression of PPARgamma without effects on Pref-1 expression.
 SO Endocrinology, (1997 Jul) Vol. 138, No. 7, pp. 2776-83.
 Journal code: 0375040. ISSN: 0013-7227.

L13 ANSWER 9 OF 10 MEDLINE on STN DUPLICATE 6
 AU Ron D; Habener J F
 TI CHOP, a novel developmentally regulated nuclear protein that dimerizes with transcription factors C/EBP and LAP and functions as a dominant-negative inhibitor of gene transcription.
 SO Genes & development, (1992 Mar) Vol. 6, No. 3, pp. 439-53.
 Journal code: 8711660. ISSN: 0890-9369.

L13 ANSWER 10 OF 10 MEDLINE on STN DUPLICATE 7
 AU Ron D; Brasier A R; McGehee R E Jr; Habener J F
 TI Tumor necrosis factor-induced reversal of adipocytic phenotype of 3T3-L1 cells is preceded by a loss of nuclear CCAAT/enhancer binding protein (C/EBP).
 SO The Journal of clinical investigation, (1992 Jan) Vol. 89, No. 1, pp. 223-33.
 Journal code: 7802877. ISSN: 0021-9738.
 Report No.: NLM-PMC442840.

=> d ab 4 113

L13 ANSWER 4 OF 10 MEDLINE on STN DUPLICATE 2
 AB This study identifies monocyte chemoattractant protein 1 (MCP-1) as an insulin-responsive gene. It also shows that insulin induces substantial expression and secretion of MCP-1 both in vitro in insulin-resistant (IR) 3T3-L1 adipocytes and in vivo in IR obese mice (ob/ob). Thus, MCP-1 resembles other previously described genes (e.g., PAI-1 and SREBP-1c) that remain sensitive to insulin in IR states. The hyperinsulinemia that frequently accompanies obesity and insulin resistance may therefore contribute to the altered expression of these and other genes in insulin target tissues. In vivo studies also demonstrate that MCP-1 is overexpressed in obese mice compared with their lean controls, and that white adipose tissue is a major source of MCP-1. The elevated MCP-1 may alter adipocyte function because addition of MCP-1 to differentiated adipocytes in vitro decreases insulin-stimulated glucose uptake and the expression of several adipogenic genes (LpL, adipsin, GLUT-4, aP2, beta3-adrenergic receptor, and peroxisome proliferator-activated receptor gamma). These results suggest that elevated MCP-1 may induce adipocyte dedifferentiation and contribute to pathologies associated with hyperinsulinemia and obesity, including type II diabetes.